# Attorney Docket No. PRD2168USPCT: U.S.S.N. 10/596,509.

### Listing of Claims

This listing of claims replaces all prior versions, and listings, of claims in the captioned application.

1. (currently amended) A compound having the formula

$$X^{2}$$
 $X^{2}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{1}$ 
 $X^{2}$ 
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 $X^{5}$ 
 $X^{5}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{5}$ 
 $X^{5$ 

the N-oxide forms, the pharmaceutically acceptable addition salts and the stereochemically isomeric forms thereof, wherein

Z represents O, NH or S;

Y represents -C3 oalkyl, C3 oalkenyl, C4 salkyl oxy C4 salkyl,

-C<sub>1-5</sub>alkyl-NR<sup>12</sup>-C<sub>1-5</sub>alkyl-, -C<sub>1-5</sub>alkyl-NR<sup>13</sup>-CO-C<sub>1-5</sub>alkyl-,

-Ct salkyl-CO NR14-Ct salkyl , Ct salkyl-CO NH , Ct salkyl NH-CO ,

CO NH C1 6alkyl, NH CO C1 6alkyl, CO C1 7alkyl, C1 7alkyl CO 1

C1-6alkyl-CO-C1 6alkyl, C1 2alkyl NH CO CH2R15 NH;

X1 represents a direct bond, O, O C, 201kyl, CO, CO C, 201kyl, NR10,

NR10 C1 20lkyl, NR16 CO, NR16 CO-C1 20lkyl, O N=CH or C1 20lkyl;

X2 represents a direct bond, O, O-C1 20lkyl-, CO, CO-C1 20lkyl , NR11,

NR11-C1-20lkyl-, NR17-CO-, NR17-CO-C1-20lkyl, Het20-C1-20lkyl, O-N-CH-or-C1-20lkyl;

R<sup>1</sup> represents hydrogen, cyano, halo, hydroxy, formyl, C<sub>1-6</sub>alkoxy-, C<sub>1-6</sub>alkyl-,

C<sub>1-6</sub>alkoxy- substituted with balo,

C<sub>1-4</sub>alkyl substituted with one or where possible two or more substituents selected from hydroxy or halo;

- R<sup>2</sup> represents hydrogen, cyano, halo, hydroxy, hydroxycarbonyl-, Het<sup>16</sup>-carbonyl-,
  - C<sub>1-4</sub>alkyloxycarbonyl-, C<sub>1-4</sub>alkylcarbonyl-, aminocarbonyl-,

mono-or di(C<sub>1-4</sub>alkyl)aminocarbonyl-, Het<sup>1</sup>, formyl, C<sub>1-4</sub>alkyl-, C<sub>2-6</sub>alkynyl-,

C<sub>3-6</sub>cycloalkyl-, C<sub>3-6</sub>cycloalkyloxy-, C<sub>1-6</sub>alkoxy-, Ar<sup>5</sup>, Ar<sup>1</sup>-oxy-, dihydroxyborane,

C<sub>1-6</sub>alkoxy- substituted with halo,

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- C1-4alkyl substituted with one or where possible two or more substituents selected from halo, hydroxy or NR<sup>4</sup>R<sup>5</sup>,
- C<sub>1-4</sub>alkylcarbonyl- wherein said C<sub>1-4</sub>alkyl is optionally substituted with one or where possible two or more substituents selected from hydroxy or C<sub>1-4</sub>alkyl-oxy-;
- R<sup>3</sup> represents hydrogen, hydroxy, Ar<sup>3</sup>-oxy, Ar<sup>4</sup>-C<sub>1-4</sub>alkyloxy-, C<sub>1-4</sub>alkyloxy-, C<sub>2-4</sub>alkenyloxy- optionally substituted with Het<sup>12</sup> or R<sup>3</sup> represents C<sub>1-4</sub>alkyloxy substituted with one or where possible two or more substituents selected from C<sub>1-4</sub>alkyloxy-, hydroxy, halo, Het<sup>2</sup>-, -NR<sup>6</sup>R<sup>7</sup>, -carbonyl- NR<sup>8</sup>R<sup>9</sup> or Het<sup>3</sup>-carbonyl-;
- R<sup>4</sup> and R<sup>5</sup> are each independently selected from hydrogen or C<sub>1-4</sub>alkyl;
- R<sup>6</sup> and R<sup>7</sup> are each independently selected from hydrogen, C<sub>1-4</sub>alkyl, Het<sup>8</sup>, aminosulfonyl-, mono- or di (C<sub>1-4</sub>alkyl)-aminosulfonyl, hydroxy-C<sub>1-4</sub>alkyl-, C<sub>1-4</sub>alkyl-oxy-C<sub>1-4</sub>alkyl-, hydroxycarbonyl-C<sub>1-4</sub>alkyl-, C<sub>3-6</sub>cycloalkyl, Het<sup>9</sup>-carbonyl-C<sub>1-</sub> 4alkyl-, Het10-carbonyl-, polyhydroxy-C1-4alkyl-, Het11-C1-4alkyl- or Ar2-C1-4alkyl-;
- R<sup>8</sup> and R<sup>9</sup> are each independently selected from hydrogen, C<sub>1-4</sub>alkyl, C<sub>3-6</sub>cycloalkyl, Het<sup>4</sup>, hydroxy-C<sub>1-4</sub>alkyl-, C<sub>1-4</sub>alkyloxyC<sub>1-4</sub>alkyl- or polyhydroxy-C<sub>1-4</sub>alkyl-;
- R<sup>10</sup> represents hydrogen, C<sub>1</sub> alkyl, Het<sup>5</sup>, Het<sup>6</sup>-C<sub>1</sub> alkyl, C<sub>2</sub> alkenylearbonyl optionally substituted with Het -C, alkylaminocarbonyl, C, alkenylsulfonyl, C1\_4alkyloxyC1\_4alkyl- or phonyl optionally substituted with one or where possible two or more substituents selected from hydrogen, hydroxy, amino or C, alkyloxy;
- R11 represents hydrogen, Ctalkyl, Ctalkyl oxy carbonyl, Het12, Het18 Ctalkyl, C2-alkenylearbonyl-optionally substituted with Het 19-C1 alkyleminocarbonyl. C2 4alkenylsulfonyl, C1 4alkyloxyC1 4alkyl or phenyl optionally substituted with one or where possible two or more substituents selected from hydrogen, hydroxy, amino or C<sub>1</sub>. 4<del>alkyloxy-;</del>

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- R<sup>12</sup> represents hydrogen, C<sub>1</sub>-alkyl, Het<sup>13</sup>, Het<sup>14</sup>-C<sub>1</sub>-alkyl- or phenyl optionally substituted with one or where possible two or more substituents selected from hydrogen, hydroxy, amino or C<sub>1-4</sub>alkyloxy-;
- R13 and R14 are each independently selected from hydrogen, C14alkyl, Het C1. 4alkyloxyC\_4alkyl;
- R15 represents hydrogen or C1 alkyl optionally substituted with phonyl, indolyl, methylsulfide. hydroxy, thiel, hydroxyphenyl, aminecarbonyl, hydroxycarbonyl, amine, imidazoyl or guanidino;
- R16 and R17 are each independently selected from hydrogen, C14alks 4<del>alkyloxyC\_4alkyl;</del>
- Het represents a heterocycle selected from piperidinyl, morpholinyl, piperazinyl, furanyl, pyrazolyl, dioxolanyl, thiazolyl, oxazolyl, imidazolyl, isoxazolyl, oxadiazolyl, pyridinyl or pyrrolidinyl wherein said Het1 is optionally substituted amino, C1-4alkyl, hydroxy-C1-4alkyl-, phenyl, phenyl-C<sub>1-4</sub>alkyl-,
  - C<sub>1-4</sub>alkyl-oxy-C<sub>1-4</sub>alkyl- mono- or di(C<sub>1-4</sub>alkyl)amino- or amino-carbonyl-;
- Het<sup>2</sup> represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl, pyrrolidinyl, thiomorpholinyl or dithianyl wherein said Het<sup>2</sup> is optionally substituted with one or where possible two or more substituents selected from hydroxy, halo, amino, C<sub>1-4</sub>alkyl-, hydroxy-C<sub>1-4</sub>alkyl-, C<sub>1-4</sub>alkyl-oxy-C<sub>1-4</sub>alkyl-, hydroxy-C<sub>1-4</sub>alkyl-oxy-C<sub>1-4</sub>alkyl-, mono- or di(C<sub>1-</sub> 4alkyl)amino-,

mono- or di(C<sub>1-4</sub>alkyl)amino-C<sub>1-4</sub>alkyl-, aminoC<sub>1-4</sub>alkyl-, mono- or di(C<sub>1-4</sub>alkyl)amino-sulfonyl-, aminosulfonyl-;

Het<sup>3</sup>, Het<sup>4</sup> and Het<sup>8</sup> each independently represent a heterocycle selected from morpholinyl, piperazinyl, piperidinyl, furanyl, pyrazolyl, dioxolanyl, thiazolyl, oxazolyl, imidazolyl, isoxazolyl, oxadiazolyl, pyridinyl or pyrrolidinyl wherein said Het<sup>3</sup>, Het<sup>4</sup> or Het<sup>8</sup> is optionally substituted with one or where possible two or more substituents selected from. hydroxy-, amino-, C<sub>1-4</sub>alkyl-,

C<sub>3-6</sub>cycloalkyl-C<sub>1-4</sub>alkyl-, aminosulfonyl-, mono- or di(C<sub>1-4</sub>alkyl)aminosulfonyl or amino-C<sub>1-4</sub>alkyl-;

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- Het represent a heterocycle selected from pyrrolidinyl or piperidinyl wherein said Het optionally substituted with one or where possible two or more substituents selected from C<sub>1</sub>.

  40lkyl, C<sub>3</sub> 6eyeloalkyl, hydroxy C<sub>1</sub> 40lkyl , C<sub>4</sub> 40lkyloxyC<sub>1</sub> 40lkyl or polyhydroxy C<sub>1</sub> 40lkyl ;
- Hot and Het each independently represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said Het and Het are optionally substituted with one or where possible two or more substituents selected from C<sub>1.4</sub> alkyl, C<sub>2.6</sub> cycloalkyl, hydroxy C<sub>1.4</sub> alkyl, C<sub>2.6</sub> cycloalkyl, hydroxy C<sub>1.4</sub> alkyl, C<sub>2.4</sub> alkyl or polyhydroxy C<sub>1.4</sub> alkyl;
- Het<sup>9</sup> and Het<sup>10</sup> each independently represent a heterocycle selected from furanyl; piperidinyl, morpholinyl, piperazinyl, pyrazolyl, dioxolanyl, thiazolyl, oxazolyl, imidazolyl, isoxazolyl, oxadiazolyl, pyridinyl or pyrrolidinyl wherein said Het<sup>9</sup> or Het<sup>10</sup> is optionally substituted C<sub>1</sub>.

  4alkyl, C<sub>3-6</sub>cycloalkyl-C<sub>1-4</sub>alkyl- or amino-C<sub>1-4</sub>alkyl-;

Het<sup>11</sup> represents a heterocycle selected from indolyl or

- Het<sup>12</sup> represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl, pyrrolidinyl, thiomorpholinyl or dithianyl wherein said Het<sup>12</sup> is optionally substituted with one or where possible two or more substituents selected from hydroxy, halo, amino, C<sub>1-4</sub>alkyl-, hydroxy-C<sub>1-4</sub>alkyl-, c<sub>1-4</sub>alkyl-oxy-C<sub>1-4</sub>alkyl-, hydroxy-C<sub>1-4</sub>alkyl-oxy-C<sub>1-4</sub>alkyl-, mono- or di(C<sub>1-4</sub>alkyl)amino- or mono- or di(C<sub>1-4</sub>alkyl)amino-C<sub>1-4</sub>alkyl-;
- Het<sup>13</sup> represent a heterocycle selected from pyrrolidinyl or piperidinyl wherein said Het<sup>13</sup> is optionally substituted with one or where possible two or more substituents selected from C<sub>1</sub>.

  4alkyl, C<sub>3-6</sub>cycloalkyl, hydroxy-C<sub>1-4</sub>allkyl-, C<sub>1-4</sub>alkyloxyC<sub>1-4</sub>alkyl or polyhydroxy-C<sub>1-4</sub>alkyl-;
- Het<sup>14</sup> represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said Het<sup>14</sup> is optionally substituted with one or where possible two or more substituents selected from C<sub>1-4</sub>alkyl, C<sub>3-6</sub>cycloalkyl, hydroxy-C<sub>1-4</sub>alkyl-, C<sub>1-4</sub>alkyloxyC<sub>1-4</sub>alkyl or polyhydroxy-C<sub>1-4</sub>alkyl-;
- Het<sup>15</sup> and Het<sup>21</sup> each independently-represent a heterocycle selected from morpholinyl;

  pyrrolidinyl, piperazinyl or piperidinyl wherein said heterocycles are optionally substituted with one or where possible two or more substituents selected from C<sub>1.4</sub>alkyl, C<sub>2.6</sub>eveloalkyl.

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hydroxy-C1 40lkyl-,

## G, 40lkyloxyC, 40lkyl or polyhydroxy C, 40lkyl;

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- Het<sup>16</sup> represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl, 1,3,2-dioxaborolane or piperidinyl wherein said heterocycle is optionally substituted with one or more substituents selected from C<sub>1-4</sub>alkyl; and
- Het<sup>17</sup> represent a hotorocycle selected from pyrrolidinyl or piperidinyl wherein said Het<sup>17</sup> is optionally substituted with one or where possible two or more substituents selected from C<sub>1</sub>.

  4alkyl, C<sub>2 6</sub>cycloalkyl, hydroxy C<sub>1 4</sub>alkyl , C<sub>1 4</sub>alkyloxyC<sub>1 4</sub>alkyl or polyhydroxy C<sub>1 4</sub>alkyl ;
- Hot<sup>18</sup> and Het<sup>19</sup> each independently represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said Het<sup>18</sup> and Het<sup>19</sup> are optionally substituted with one or where possible two or more substituents selected from C<sub>1-4</sub>alkyl, C<sub>3-6</sub>cycloalkyl, hydroxy C<sub>1-4</sub>alkyl , C<sub>1-4</sub>alkyl ox polyhydroxy C<sub>1-4</sub>alkyl ;
- Het<sup>20</sup> represents a heterocycle selected from pyrrolidinyl, 2 pyrrolidinyl, piperidinyl, piperazinyl, morpholinyl, imidazolyl or pyrazolidinyl wherein said Het<sup>20</sup> is optionally substituted with one or where possible two or more substituents selected from C<sub>1</sub> 4alkyl, C<sub>2</sub> 6eyeloalkyl, hydroxy C<sub>1</sub> 4alkyl , C<sub>1</sub> 4alkyloxyC<sub>1</sub> 4alkyl or polyhydroxy C<sub>1</sub> 4alkyl ; and
- Ar<sup>1</sup>, Ar<sup>2</sup>, Ar<sup>3</sup>, Ar<sup>4</sup> and Ar<sup>5</sup> each independently represent phenyl optionally substituted with cyano, C<sub>1</sub>-4alkylsulfonyl-, C<sub>1</sub>-4alkylsulfonylamino-, aminosulfonylamino-, hydroxy-C<sub>1</sub>-4alkyl, aminosulfonyl-, hydroxy-, C<sub>1</sub>-4alkyloxy- or C<sub>1</sub>-4alkyl.
- 2. (Currently Amended) A compound according to claim 1 wherein;

#### Z represents NH;

- Y represents C<sub>3</sub> salkyl , C<sub>2</sub> salkenyl , C<sub>4</sub> salkyl oxy C<sub>4</sub> salkyl ,

  -C<sub>4</sub> salkyl NR<sup>12</sup> C<sub>4</sub> salkyl , C<sub>4</sub> salkyl NR<sup>13</sup> -CO C<sub>4</sub> salkyl , C<sub>4</sub> salkyl NH -CO ,

  -CO C<sub>4</sub> salkyl , C<sub>4</sub> salkyl CO or C<sub>4</sub> salkyl CO C<sub>4</sub> salkyl;
- X<sup>1</sup>-represents O, O C<sub>1-2</sub>alkyl, O N=CH, NR<sup>16</sup>-CO, NR<sup>16</sup>-CO-C<sub>1-2</sub>alkyl, NR<sup>10</sup>-or

  -NR<sup>10</sup>-C<sub>1-2</sub>alkyl-; in a particular embodiment X<sup>1</sup>-represents O, O CH<sub>2</sub>, NR<sup>10</sup>-or

  -NR<sup>10</sup>-C<sub>1-2</sub>alkyl-;

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- X<sup>2</sup>-represents a direct bond, O, O C<sub>1-2</sub>alkyl, O N=CH, Het<sup>20</sup>-C<sub>1-2</sub>alkyl, C<sub>1-2</sub>alkyl, NR<sup>17</sup>-CO,

  NR<sup>17</sup>-CO C<sub>1-2</sub>alkyl, NR<sup>11</sup>-or NR<sup>11</sup>-C<sub>1-2</sub>alkyl-; in a particular embediment X<sup>2</sup>-represents a direct bond, O N=CH, NR<sup>11</sup>-C<sub>1-2</sub>alkyl,

  NR<sup>11</sup>-CH<sub>2</sub>, Het<sup>20</sup>-C<sub>1-2</sub>alkyl, NR<sup>12</sup>-CO, NR<sup>17</sup>-CO C<sub>1-2</sub>alkyl--C<sub>1-2</sub>alkyl,

  O C<sub>1-2</sub>alkyl, O or O CH<sub>2</sub>;
- R1 represents hydrogen, cyano, halo or hydroxy, preferably halo;
- R<sup>2</sup> represents hydrogen, cyano, halo, hydroxy, hydroxycarbonyl-, C<sub>1-4</sub>alkyloxycarbonyl-, Het<sup>16</sup>-carbonyl-, C<sub>2-6</sub>alkynyl-, Ar<sup>5</sup> or Het<sup>1</sup>;

  In a further embodiment R<sup>2</sup> represents hydrogen, cyano, halo, hydroxy,

  C<sub>2-6</sub>alkynyl- or Het<sup>1</sup>;
- $R^3$  represents hydrogen, hydroxy,  $C_{1-4}$ alkyloxy-,  $Ar^4$ - $C_{1-4}$ alkyloxy or  $R^3$  represents  $C_{1-4}$ alkyloxy substituted with one or where possible two or more substituents selected from  $C_{1-4}$ alkyloxy- or  $Het^2$ -;
- R<sup>10</sup> represents hydrogen, C<sub>1</sub> 4alkyl or C<sub>1</sub> 4alkyl oxy carbonyl;
- R<sup>11</sup> represents hydrogen, C<sub>1-4</sub>alkyl-or C<sub>1-4</sub>alkyl-oxy-carbonyl;
- R<sup>12</sup> represents Het<sup>14</sup>-C<sub>1-4</sub>alkyl, in particular morpholinyl-C<sub>1-4</sub>alkyl;
- R<sup>16</sup> represents hydrogen, C<sub>1.4</sub>alkyl., Het<sup>21</sup>-C<sub>1.4</sub>alkyl or C<sub>1.4</sub>alkyl oxy C<sub>1.4</sub>alkyl; in particular R<sup>16</sup> represents hydrogen or C<sub>1.4</sub>alkyl;
- R<sup>17</sup> represents hydrogen, C<sub>1</sub> 40lkyl, Het<sup>24</sup> C<sub>1</sub> 40lkyl or C<sub>1</sub> 40lkyl oxy C<sub>1</sub> 40lkyl; in particular R<sup>16</sup> represents hydrogen or C<sub>1</sub> 40lkyl;
- Het represents thiazolyl optionally substituted amino,  $C_{1}$  alkyl, hydroxy- $C_{1}$  alkyl-, phenyl, phenyl- $C_{1}$  alkyl-,  $C_{1}$  alkyl-oxy- $C_{1}$  alkyl- mono- or di( $\dot{C}_{1}$  alkyl) amino- or amino-carbonyl;
- Het<sup>2</sup> represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het<sup>2</sup> is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C<sub>1-4</sub>alkyl-;
- Het<sup>14</sup> represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het<sup>14</sup> is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C<sub>1-4</sub>alkyl-;
- Het<sup>16</sup> represents a heterocycle selected from piperidinyl, morpholinyl or pyrrolidinyl;
- Het20 represents a heterocycle selected from pyrrolidinyl, 2 pyrrolidinyl or piperidinyl;

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- Het<sup>21</sup>-represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het<sup>21</sup>-is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C<sub>1</sub> 40lkyl;
- Ar<sup>4</sup> represents phenyl optionally substituted with cyano, hydroxy-, C<sub>1-4</sub>alkyloxy or C<sub>1-4</sub>alkyl; and
- Ar<sup>5</sup> represents phenyl optionally substituted with cyano, hydroxy,  $C_{1-4}$ alkyloxy or  $C_{1-4}$ alkyl.
- 3. (Currently Amended) A compound according to claim 1 wherein;

Z represents NH;

- Y-represents Capalkyl, Capalkyl NR<sup>12</sup>-Capalkyl, Capalkyl NR<sup>13</sup>-CO Capalkyl, Capalkyl NH CO or CO NH Capalkyl;
- X<sup>1</sup>-represents a direct bond, NR<sup>10</sup>, NR<sup>10</sup>-C<sub>1</sub> alkyl, NR<sup>10</sup>-CH<sub>2</sub>, C<sub>1</sub> alkyl, O or O CH<sub>2</sub>;
- X2-represents a O; NR44, NR47-CO, NR47-CO CL 20lkyl-or-Hot20-CL 20lkyl;
- R<sup>1</sup> represents hydrogen or halo;
- R<sup>2</sup> represents hydrogen, cyano, halo, hydroxycarbonyl-, C<sub>1-4</sub>alkyloxycarbonyl-, Het<sup>16</sup>-carbonyl- or Ar<sup>5</sup>;
- R<sup>3</sup> represents hydrogen, hydroxy, C<sub>1-4</sub>alkyloxy-, Ar<sup>4</sup>-C<sub>1-4</sub>alkyloxy or R<sup>3</sup> represents

  C<sub>1-4</sub>alkyloxy substituted with one or where possible two or more substituents selected from C<sub>1-4</sub>alkyloxy- or Het<sup>2</sup>-;
- R<sup>10</sup>-represents hydrogen;
- R11 represents hydrogen, C1 alkyl or C1 alkyl oxy carbonyl;
- R12 represents Het14-C14alkyl, in particular morpholinyl C14alkyl;
- R<sup>13</sup>-represents-hydrogen;
- R<sup>17</sup>-represents hydrogen;
- Het<sup>2</sup> represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het<sup>2</sup> is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C<sub>1-4</sub>alkyl-;
- Het<sup>14</sup> represents morpholinyl;

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Het<sup>16</sup> represents a heterocycle selected from morpholinyl or pyrrolidinyl;

Het 20 represents pyrrolidinyl or piperidinyl;

Ar4 represents phenyl; and

Ar<sup>5</sup> represents phenyl optionally substituted with cyano.

4. (previously presented) A compound according to claim 1, wherein the R<sup>1</sup> substituent is at position 4', the R<sup>2</sup> substituent is at position 5' and the R<sup>3</sup> substituent at position 7 of the structure of formula (I).

## 5.-7. (Cancelled)

8. (previously presented) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and, as active ingredient, an effective kinase inhibitory amount of a compound as described in claim 1.

### 9.-12 (cancelled)